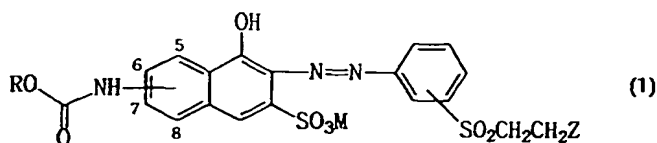




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C09B 62/51	A1	(11) International Publication Number: WO 99/48985 (43) International Publication Date: 30 September 1999 (30.09.99)
<p>(21) International Application Number: PCT/KR99/00142</p> <p>(22) International Filing Date: 26 March 1999 (26.03.99)</p> <p>(30) Priority Data: 1998/10607 26 March 1998 (26.03.98) KR</p> <p>(71) Applicant (for all designated States except US): KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY [KR/KR]; 100, Jang-dong, Yusung-ku, Daejeon 305-343 (KR).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): OH, Sea, Wha [KR/KR]; 383-23, Doryong-dong, Yusung-ku, Daejeon 305-340 (KR). KANG, Myeong, Nyeo [KR/KR]; 109-901, Chungku-Narae Apt., 462-4, Junmin-dong, Yusung-ku, Daejeon 305-390 (KR). KIM, Tae, Kyung [KR/KR]; 135-903, Hanbit Apt., 99, Uheun-dong, Yusung-ku, Daejeon 305-333 (KR).</p> <p>(74) Agent: HUH, Sang, Hoon; Hyecheon Building, 13th floor, 831 Yeoksam-dong, Kangnam-ku, Seoul 135-792 (KR).</p>		<p>(81) Designated States: CN, IN, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published With international search report.</p>

(54) Title: REACTIVE ORANGE DYES CONTAINING VINYL SULFONES



(57) Abstract

The present invention relates to a reactive orange dye containing vinyl sulfone and more particularly, to the dye which have 6(7)-alkoxycarbonylamino-4-hydroxy-2-naphthalenesulfonic acid as a chromophore and aminophenyl-β-ethylsulfone derivative as an azo coupler. This dye provides excellent fastness in terms of light, washing, perspiration and chlorine as well as better dyeing yield than other monofunctional reactive dye. In Formula (1), M is alkaline metal atom; Z is -O-SO₃M or OC(O)CH₃; R is alkyl group having 1-4 of carbon atom; and a position of C₆ or C₇ is substituted with carbamate group.